Blickman Health Industries, Inc.
20-21 WAGARAW RD., P.O. 488, FAIR LAWN, N.J. 07410-0488/201-423-3660

OPERATOR'S MANUAL

CABINET, SOLUTION WARMING, TWO COMPARTMENT
CORROSION- RESISTANT

6530-01-207-0827
6530-01-244-1976 (J)

MODEL 7924-SSDP

DLA120-89-C-8200

MANUFACTURERS:
Health Care Equipment and Food Conveyors

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I. INTRODUCTION

This manual contains Descriptive Information, General Operating and Maintenance Instructions, an illustrated parts breakdown and a listing of components supplied with this equipment.

1. PURPOSE AND FUNCTION

The Blickman-Built Blanket Warmer (Model 7924-SSDP) is designed to heat blankets to 110°F ± 10°F in the lower compartment and to raise the temperature of twenty 2-liter flasks of solutions from 75°F to 180°F within 8 hours in the upper compartment.

2. DESCRIPTION

The warming cabinet consists of a single Stainless Steel Cabinet with two individual compartments each with independently controlled and separate electrically heated systems.

Both compartments are designed to operate on 120V 50/60 HZ electrical current.

UPPER COMPARTMENT:

Temperature can be controlled throughout the range of 75°F through 190°F. A fan is used to circulate the heated air. Included is an Audio and Visual Alarm System to alert personnel, as well as a safety thermostat to disable power should the temperature exceed 194°F.

LOWER COMPARTMENT:

The temperature is preset to 110°F ± 10°F. In addition, the lower compartment is protected with a safety thermo-fuse which disables the power if this section exceeds 157° F. This compartment includes 2 shelves with height adjustments in increments of 1 inch.

3. LIST OF COMPONENTS

The original shipping container includes:

a. Warming Oven Model 7924-SSDP	QTY 1
b. Operator's Manual	2
c. Maintenance Manual	2
d. Lower Shelves	2
e. Shelf Clips	8

4. LIST OF ACCESSORIES

No accessories are provided. Solution warming flasks are available from your medical supply company.

5. SPECIFICATIONS

a. Weight: 320 lbs net 430 lbs gross

b. Exterior Dimensions: 75" high x 24" deep x 30" wide

c. Interior Upper Compartment: 20" high x 21.875" deep x 27.75" wide

d. Interior Lower Compartment: 43.5" high x 21.875" deep x 27.75" wide

e. Electrical Requirements (each compartment)

120 V., 50/60 HZ, 15 Amp

II. INSTALLATION INSTRUCTIONS

Select a clean level place with two hospital grade 120V, 50/60 HZ, 15 Amp 3 prong receptacles. Plug both the upper and lower compartment power cords into the receptacle.

Before operating your Blickman-Built Blanket Warmer, check the nameplate located on your control box to see if the voltage and wattage can be serviced by your existing circuits.

Each circuit is protected by a 10 Amp Fuse.

CAUTION: THIS CABINET IS NOT DESIGNED FOR USE IN EXPLOSIVE AREAS.

III. OPERATING INSTRUCTIONS

1. UPPER COMPARTMENT

When the upper cabinet is plugged in, use the power switch to turn the unit on.

With the compartment door closed a fan will begin to circulate the air. Opening the compartment door will cause a switch to deactivate the fan motor.

A proportional temperature control with a range of 0°F to 400° is provided in conjunction with a thermocouple located in the main air stream.

The upper compartment has a low range of 75°, a mid range of 130°, and a high range of 180°.

With the control set to the low end range of 75° the heater circuit will be energized. A stabilization period of approximately one hour is suggested to allow the internal temperature dial thermometer to reach the set range. The internal temperature dial thermometer and control should read within plus or minus 5° of their settings.

A safety thermostat is provided to automatically disable the heater circuit if the temperature exceeds 190° - 194°. In addition, a visual and audible alarm will be activated. A switch is provided to silent the audio alarm if that is necessary. The safety thermostat is self-resetting.

In solution warming it is necessary to preheat the compartment to 180°F before loading flasks. The solution should be at least at 75° (or approx room temperature) before warming to 180°.

Because of the nature of the proportioning type of control it may be

necessary to increase the knob setting on the dial to 185° in order to bring the solution to temperature in 8 hours.

2. LOWER COMPARTMENT

In the lower compartment, when the switch is turned on, the pilot light above the switch will indicate power is on to the control cabinet. As with the upper compartment this circuit is protected with a 10 Amp. fuse. Power is also supplied to the heater circuit.

A preset temperature control will maintain the temperature at 110° ± 10°F. The heater should remain on for at least one hour to stabilize the temperature.

There is also a thermo-fuse located in the sensor box that will deactivate the power being supplied to the heater circuit should the temperature control malfunction or if the temperature exceeds approximately 157°F. When this occurs, the heater circuit will remain off until the thermo-fuse has been replaced.

The cabinet is heated by a strip heater located in the bottom of the cabinet.

3. ADJUSTMENT & SERVICE

Caution should be taken when servicing the unit. Power should be disconnected and heaters allowed to cool before replacing the heaters or any other components.

Although the controls have been adjusted at the factory, any deviation that occurs can be readjusted. The dial thermometer requires a 2.5MM hex key to adjust the dial located on the back of the control. The knob on the temperature control requires a small screw driver to reposition. All other controls are not adjustable.

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MAINTENANCE MANUAL

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OPERATOR MAINTENANCE

Operator Maintenance is limited to replacement of:

PART DESCRIPTION	PART#	DRAWING KEY
Fuse 10 AMP	AGC1	fig 1 Key 13
Pilot Lamp	NE-51	fig 1 key 5
Pilot Light Lens	95-0931	fig 1 key 5

MAINTENANCE TECHNICIAN INSTRUCTIONS

In the event of failure to operate, there are three primary parts to check and replace if indicated:

1. Blown Fuse	fig 2 key 8	& fig 4 key 1
2. Defective Safety thermostat	fig 2 key 4	
3. Blown Thermo fuse	fig 4 key 2	

UPPER CONTROL COMPARTMENT

The following parts are accessible by removing the face plate of the compartment as indicated.

The temperature control (fig 2 key 6) is accurate to 3% of range span mid 80% of span. If normal movement of setting changes the temperature range, but not within the desired range then test the temperature probe for resistance ohms to determine if it is "open" or "shorted".

The remaining parts, if inoperative, should be checked for proper solder/terminal connections and continuity. If parts prove to be defective then remove and replace as required.

The upper compartments over temperature thermostat (fig 2 key 4) is preset for 190°F. It is self resetting and will permit resumption of normal operation unless defective. (When "open" this will cause the alarm relay coil to de-energize and switch to the normally open contacts position which energizes the alarms.)

The alarm relay (fig 2 key 3) when energized will open the contact points for the alarms. When disabled by the safety thermostat, the points close and set off the visual and audio alarms.

The door switch (fig 2 key 8) is in series with the fan motor (fig 2 key 2) and opens with the compartment door.

To access the fan remove the front panel to disconnect the wires and then remove the perforated shelf (figure 1 key 11) for access to the fan unit. Check terminals and thermal protector and replace if defective.

LOWER CONTROL COMPARTMENT

In the event of a failure to operate there are three primary parts to check and replace if indicated:

1.	Blown fuse	Fig 4 key 1
2.	Defective thermostat	Fig 4 key 3
3.	Blown thermo fuse	Fig 4 key 2

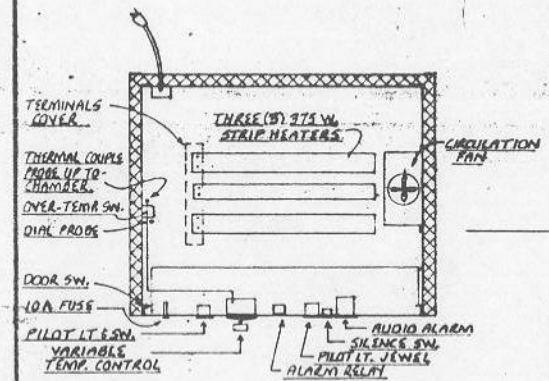
The remaining parts, if inoperative, should be checked for proper solder/terminal connections and continuity. If parts prove to be defective then remove and replace as required.

The lower compartment safety thermostat (fig 4 key 3) is preset for 110°F. It is self resetting and will permit resumption of normal operation unless it is defective.

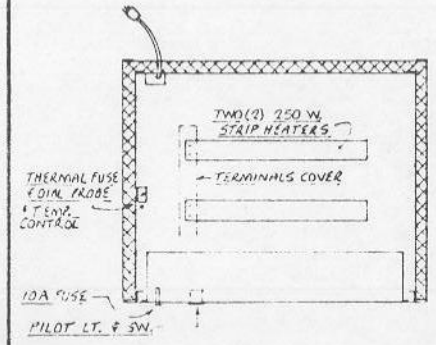
The thermo-fuse (fig 4 key 2) is designed to fail if there is a temperature increase to at least 157°F. This is a one time operation and the limiter must be replaced if it has blown.

The remainder of the electrical components are in the upper compartment.

Drawing and Wiring Schematics of Model 7924-SSDP Warming Cabinet
Figures 1 through 5



UPPER CONTROL COMPARTMENT
FIG. 3



LOWER CONTROL COMPARTMENT
FIG. 5

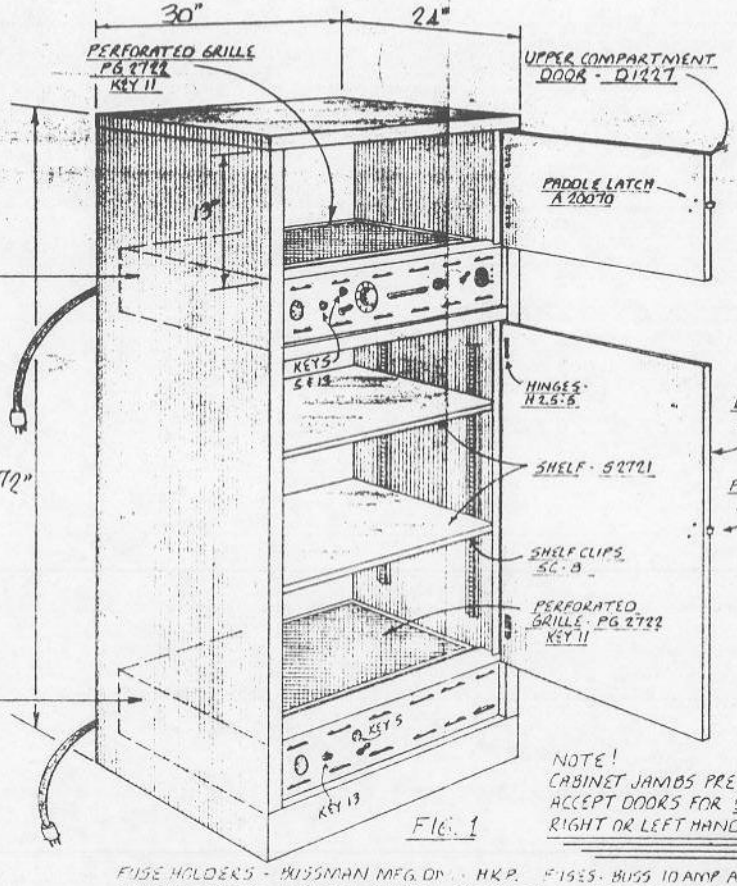
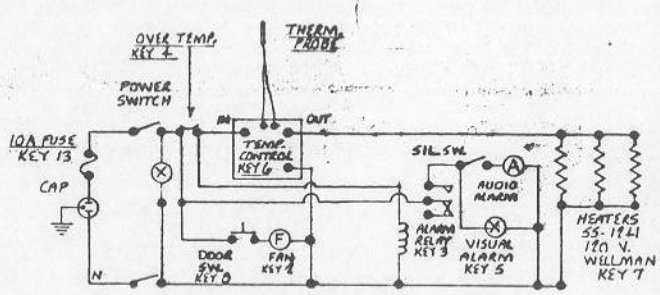
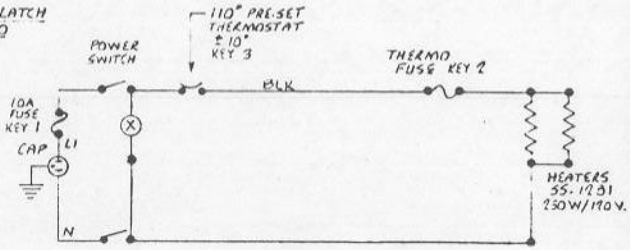


FIG. 1

NOTE!
CABINET JAMBS PREPARED TO ACCEPT DOORS FOR EITHER RIGHT OR LEFT HAND HINGING.



WIRING DIAGRAM
UPPER COMPARTMENT
FIG. 2



WIRING DIAGRAM
LOWER COMPARTMENT
FIG. 4

FUSE HOLDERS - BUSSMAN MFG. DIV. - HKP. FUSES - BUSS 10 AMP AGC
STRIP HEATERS - WELLMAN THERMAL SYSTEMS * 55-1251, 250 W-120 V. & * 55 1241, 375 W-120 V.
TEMPERATURE CONTROL - UNITED ELECTRIC CONTROLS - E951, 10A-120V, 60°-250° F.
TEMP. CONTROL - FENWALL 54-403653-102 / THERMO COUPLE - CT 18-38J 1304-7-48.
SAFETY THERMOSTAT - ELMWOOD SENSOR INC. - 2512 L020-747 L-190°
THERMO-FUSE - ELMWOOD D070.
AUDIO ALARM - MALLORY - SC 110 Q.
PILOT LIGHT - DIALIGHT CORP - 95-9308-0931-132.
DIAL THERMOMETER - CLIFTON 66123-3 75°-250° F.
ALARM & VISUAL RELAY - POTTER BROMFIELD - KUSA11 120V. S.P.S.T.
FAN - ROTRON 559-0150 120V. FAN DOOR SW. A & H 80511E
RUBBER CORD - CAROL CABLE CORP. - 1613 SO.
CAP - PASS & SEYMOUR, 5266 H.G. - 15A-125 V.; LINE CORD ASSEMBLY - LCA-8.
POWER SWITCH - CUTLER HAMMER J560K 5
PILOT LIGHT - SYLVANIA 463.

MODEL Nº 7924-55DP
CABINET, SOLUTION WARMING, TWO COMPARTMENT
STAINLESS STEEL CONSTRUCTION

NSN 6530-01-207-0827

BLICKMAN HEALTH INDUSTRIES, INC. FAIR LAWN, N.J.	
SCALE-	DWN. BY SB
DATE- 9-26-85	CKD. BY
REV 1 12-26-89	FOLDER H-94
	DWG. B-92685